

CLAIMS

1.) A self-ligating bracket with lateral runners, of the ones that have a platform(2) that is
 5 cemented on a tooth, an arch groove(37) to contain an arch for treatment, a closure cap(41)
 of said arch for treatment with a self-ligating system, and flanges for conventional
 ligatures(34,44), that comprises:

- a body(1), that has a platform(2) and a groove's body(3), and
- a shutting or closure element(4),

10 mentioned platform(2) being composed of

- a dental surface(22) with a rounded shape to adapt to the tooth, with said surface
 having(22) cementing slots(26)that serves to join it to the tooth
- a mesial surface(25), a distal surface(no reference),a gingival surface(20) and an
 15 occlusal surface(21), all of them flat and with rounded edges on their joints or unions;
- and a labial surface(23), mostly flat, where a retention clip(27)of a wedge shape
 overtops from it.

20 said crease body(3), that adapts to(constitutes of) the arch's crease(37), being composed
 of:

- a dental wall(32), joined in the its central portion to mentioned labial surface(23) of
 mentioned platform(2) of mentioned body(1) leaving a pair of guides free (35)
 between the external part of the dental wall(32) and the labial surface(23) which
 stretch along the sides of the labial surface(23) in gingival-occlusal direction;
- 25 - a gingival wall(31); and
- an occlusal wall(33) that stretches in occlusal direction to form an occlusal flange for
 conventional ligatures(34)

said closure element(4) being composed of :

- 30 - a body of the closure element(45), formed by a flat surface on its occlusal side that
 constitutes a closing buffer (46), a gingival flange in the gingival side for conventional
 ligatures(44), including a hooking notch(49) in the mentioned body(45) on its dental
 side.
- a locking cap (41) that extends from the labial surface of mentioned body of closure
 35 element(45) ; and

- several runners (42), whose longitudinal section has a long polygonal shape that has two slightly wedged areas on the gingival and occlusal ends on the mentioned longitudinal section, which are joined to the closure element (45) on the gingival end and have a sliding surface (43) in the middle and a joining notch (47) in the occlusal end.

wherein the body's assembly(1) with the closure element (4) is produced by the placing of the runners(42) of the closure element(4) on the guides(35) of the body(1) in gingival-occlusal direction.

2.) A self-ligating bracket with lateral runners in accordance with claim 1, wherein once they have been assembled to the body(1) with the closure element(4), and before cementing it to the patient's tooth, a retention bar or stick(50) can be welded-on in the hooking notch(49) of the runners(42) of the mentioned closure element(4), to impede the separation of this mentioned closure element(4) from the mentioned body(1).

3.) A self-ligating bracket with lateral runners according to claim 1, wherein the body's construction(1) there is arranged the labial surface(23) turned 180° with respect to a perpendicular axis to the mentioned surface and where the groove's body(3) is turned 180° with respect to a perpendicular axis to the said surface, which allows the assembly of mentioned body(1) with the closure element(4) to be done in an occlusal-gingival direction.